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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/622,597 | 07/18/2003 | Donald David Karlov | MSFT-1794/303770.1 | 4306 |
| 41505 | 7590 | 01/11/2006 | EXAMINER | |
| WOODCOCK WASHBURN LLP (MICROSOFT CORPORATION) ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103 | | | TUNG, KEE M | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2671 | |

DATE MAILED: 01/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/622,597

Applicant(s)

KARLOV, DONALD DAVID

Examiner

Kee M. Tung

Art Unit

2671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 and 9-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 9-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

The RCE filed on 10/31/05 has been considered in preparing this Office action.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-7, 9, 11-19, 21-24 and 26--28 are rejected under 35 U.S.C. 102(e) as being anticipated by Koselj et al (US 2003/0214506 hereinafter "Koselj").

Koselj teaches a method for rendering graphics on a display device (Fig. 17, TFT display) for a computer system (Fig. 18) having CPU (2), system RAM (not shown in Fig. 18, but is inherent to any computer system to have a main/system RAM), and a graphics card (Figs. 1 and 21), said graphics card comprising a graphical processing unit (graphics engine 1), a VRAM (back buffer 15), and a frame buffer (display memory 17), comprising rendering a graphic in the system RAM with the CPU (2); and copying said graphic from the system RAM directly into the frame buffer by the CPU, wherein copying directly into the frame buffer bypasses the graphical processing unit (pars 0203, 0207, 0209-0213, 0225, 0226 and 0228). Therefore, at least claim 1 is anticipated by Koselj.

As per claim 2, Koselj teaches said graphic comprises a complex graphic element (par 0004, complex graphics processing).

As per claims 3 and 4, Koselj teaches sub-pixel manipulation technology and anti-aliasing (par 0026).

As per claim 5, Koselj teaches said complex graphics comprising shading (par 0129).

As per claims 6 and 9, Koselj teaches said complex graphics comprising texturing and compositing of overlays (not shown, but is inherently to having in complex graphics processing which normally includes color and alpha-blending, z-buffering, compositing of overlays, lighting, shading and texture).

As per claim 7, Koselj teaches said complex graphics comprising alpha-blending (par 0032).

As per claims 11 and 12, Koselj teaches the graphics card comprising a graphics accelerator/coprocessor (par 0005).

Claims 13-19, 21-24, 26-28 are similar in scope to claims 1-7, 9, 11 and 12, and thus are rejected under similar rationale.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 10, 20, 25 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koselj et al (US 2003/0214506 hereinafter "Koselj") in view of Hoppe et al (US 2002/0196256 hereinafter "Hoppe").

The teachings of Koselj are given in previous paragraph of this Office action. However, Koselj fails to explicitly teach or suggest the computer system further comprising an AGP between the CPU, the system memory and the graphics card. This is what Hoppe teaches (par 0035). It would have been obvious to one of ordinary skill in the art at the time the present invention was made to combine the teachings of AGP of Hoppe into the system of Koselj in order to replace the interconnection bus of Koselj by the AGP of Hoppe and thus to increase the bus access speed because AGP is a point-to-point connection provides faster and better access for the graphics processor to access data in the system memory. Therefore, at least claims 10 and 25 would have been obvious.

As per claims 20 and 29, Hoppe teaches said complex graphics comprises an orientation-change graphic (par 0078).

Response to Arguments

5. Applicant's arguments with respect to claims 1-7 and 9-29 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kee M. Tung whose telephone number is 571-272-7794. The examiner can normally be reached on Tuesday - Friday from 5:30 am - 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ulka Chauhan can be reached on 571-272-7782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'K. M. Tung', is positioned above the printed name and title.

Kee M Tung
Primary Examiner
Art Unit 2671